Claims

1. An imaging device comprising

at least one image capturing subsystem of a first type, comprising a lens arrangement, configured to produce images,

at least one image capturing subsystem of a second type comprising a lens arrangement, having optical or light gathering properties different from the subsystem of first type, configured to produce an image, and

a controller configured to select the subsystem with which an image is to be taken.

- 2. The device of claim 1, wherein the image capturing subsystem of the second type comprises a macro lens arrangement.
- 3. The device of claim 1, wherein the image capturing subsystem of the second type comprises a high magnification lens arrangement.
- 4. The device of claim 1, wherein the image capturing subsystem of the second type comprises a tele lens arrangement.
- 5. The device of claim 1, wherein the image capturing subsystem of the second type comprises a wide-angle lens arrangement.
- 6. The device of claim 1, wherein the image capturing subsystem of the second type comprises an anamorphically cylindrical lens.
- 7. The device of claim 1, wherein the image capturing subsystem of the second type comprises a color matrix filter, and the controller is configured to take images with the subsystems in sequence to capture fast motion objects.
- 8. The device of claim 1, wherein the resolution of the image produced by the image capturing subsystem of the second type is a resolution used in videoconferencing applications.
- 9. The device of claim 8, wherein the resolution of the image produced by the image capturing subsystem of the second type is CIF or QCIF.
- 10. The device of claim 1, wherein the image capturing subsystems comprise a lens system and a sensor array configured to produce an electric signal and the device comprises a processor operationally connected to the sensor arrays and configured to produce an image proportional to the electrical signal received from the sensor arrays.
- 11. The device of claim 10, wherein the device comprises a sensor array divided between image capturing subsystem types.

- 12. The device of claim 1, wherein the device comprises a lenslet array with at least four lenses.
- 13. The device of claim 12, wherein the lens arrangement of the image capturing subsystem of the first type device comprises three lenses from the lenslet array, and a portion of the sensor array, and

the lens arrangement of the image capturing subsystem of the second type device comprises the fourth lens from the lenslet array, and a portion of the sensor array.

- 14. The device of claim 13 wherein image capturing subsystem of a first type is configured to produce a color image and the image capturing subsystem of the second type is configured to produce an image.
- 15. The device of claim 14, wherein the lens arrangement of the image capturing subsystem of the first type comprises a red, green and blue color filter, each associated with a lens.
- 16. The device of claim 14, wherein the lens arrangement of the image capturing subsystem of the first type comprises a cyan, magenta and yellow color filter, each associated with a lens.
- 17. The device of claim 14, wherein the lens arrangement of the subsystem of the second type comprises a Bayer matrix.
- 18. The device of claim 13, wherein the image capturing subsystems of the first and the second type are configured to produce images in the same color space.
 - 19. An imaging device comprising
 - a lenslet array with four lenses, at least one sensor array,

an image capturing subsystem of a first type comprising a lens arrangement, configured to produce images, the lens arrangement of the image capturing subsystem of a first type device comprising at least three lenses from the lenslet array, and a sensor array,

an image capturing subsystem of a second type comprising a lens arrangement, having optical or light gathering properties different from the subsystem of first type, configured to produce an image, the lens arrangement of the image capturing subsystem of a second type device comprising at least one lens from the lenslet array, and a sensor array,

and a controller configured to select the subsystem with which an image is to be taken.